

Amendment of the Claims

In the claims:

Please amend the claims as follows (additions are underlined and deletions are struck through):

Claims 1-48 (Cancelled).

Claim 49 (Currently Amended). A method of producing an edible plant whose edible portions comprise significant concentrations of selenium comprising:

growing an edible plant in an environment that contains selenium under conditions that allow the plant to accumulate selenium in its edible portions, whereby the plant is a member of the family Brassicaceae; and

harvesting the plant after it has accumulated selenium in its edible portions to a concentration higher than that of the selenium in the environment, wherein the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration that is several fold higher than that of the selenium in the environment.

Claim 50 (Cancelled).

Claim 51 (Currently Amended). A method of producing an edible plant whose edible portions comprise significant concentrations of selenium comprising:

growing an edible plant in an environment that contains selenium under conditions that allow the plant to accumulate selenium in its edible portions; and

harvesting the plant after it has accumulated selenium in its edible portions to a concentration higher than that of the selenium in the environment, wherein the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration of at least about 400 ppm.

Claim 52 (Currently Amended). The A method of any one of claims 49-51 49 or 51, wherein:

the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration that is about 7.5 7500 fold higher than that of the selenium

in the environment.

Claim 53 (Currently Amended). The method of ~~any one of~~ claims 49–~~51~~ 49 or 51, wherein:

the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration of at least about several thousand mg/kg dry weight.

Claim 54 (Currently Amended). The method of ~~any one of~~ claims 49–~~51~~ 49 or 51, wherein:

the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration of at least about ~~2500~~ 8000 mg/kg dry weight.

Claim 55 (Currently Amended). The method of ~~any one of~~ claims 49–~~51~~ 49 or 51, wherein:

the step of growing comprises growing the edible plant under conditions such that at least about 20% of the accumulated selenium is in the form of Se-methylselenocysteine.

Claim 56 (Currently Amended). The method of ~~any one of~~ claims 49–~~51~~ 49 or 51, wherein:

the step of growing comprises growing the edible plant under conditions such that at least about 85% of the accumulated selenium is water soluble.

Claim 57 (Currently Amended). The method of ~~any one of~~ claims 50–~~claim~~ 51, wherein:

the plant is a member of the family Brassicaceae.

Claim 58 (Previously Presented). The method of ~~any one of~~ claims 49–~~51~~ 49 or 51, wherein:

the plant is of a species selected from the group consisting of *Brassica juncea*, *Brassica oleracea*, and *Brassica carinata*.

Claim 59 (New). The method of claims 49 or 51, wherein:

the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration of at least about 2000 mg/kg dry weight.

Claim 60 (New). The method of claims 49 or 51, wherein:

the step of harvesting comprises harvesting the plant after it has accumulated selenium in

its edible portions to a concentration of at least about 1500 mg/kg dry weight.

Claim 61 (New). The method of claims 49 or 51, wherein:

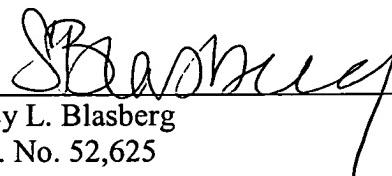
the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration of at least about 1000 mg/kg dry weight.

Claim 62 (New). The method of claims 49 or 51, wherein:

the step of harvesting comprises harvesting the plant after it has accumulated selenium in its edible portions to a concentration of at least about 500 mg/kg dry weight.

Although it is believed that there is no fee associated with this paper, if Applicant is mistaken, please charge any fees to our Deposit Account No.: 03-1721.

Respectfully submitted,



Stacy L. Blasberg
Reg. No. 52,625

Choate, Hall & Stewart
Exchange Place
53 State Street
Boston, MA 02109
(617) 248-5000
Dated: July 15, 2004

3723105_1.DOC